Research Publications

Mathematics & Computer Science Publications in Peer Reviewed Journals

Rohan Yashraj Gupta, Satya Sai Mudigonda, Phani Krishna Kandala, Dr. Pallav Kumar Baruah, A Framework for Comprehensive Fraud Management Using Actuarial Techniques, *International Journal of Scientific & Engineering Research*, 10(3), 780-791 (2019).

Rohan Yashraj Gupta, Satya Sai Mudigonda, A Proposed Model for Measuring Protection of Policyholders' Interest at Industry Level, *Journal of Insurance Regulatory and Development Authority of India (IRDAI)*, 17(1), 59-65, (2019).

D K K Vamsi, Deva Siva Sai Murari Kanumoori, Bishal Chhetri, Additional Food Supplements as a Tool for Biological Conservation of Biosystems in the Presence of Inhibitory Effect of the Prey, *Acta Biotheoretica*, 1-35, (2019).

Lalith Srikanth Chintalapati, Raghunatha Sarma Rachakonda, Enhanced Affinity for Spectral Clustering using Topological Node Features (TNFS), *International Journal of Engineering and Advanced Technology (IJEAT)*, 9(1), 2249-8958, (2019).

Lalith Srikanth Chintalapati, Raghunatha Sarma Rachakonda, Enhanced Similarity for Spectral Clustering using Local Steering Features, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 8(12), 2278-3075, (2019).

P Sunil Kumar, Raghunatha Sarma, Satya Sai Mudigonda, An Analytical Model for Evaluating Social Security Schemes-A Focus on "Ayushman Bharat" Universal Health Scheme in India, *International Journal of Recent Technology and Engineering (IJRTE)*, 8(3), 8929-8936 (2019).

S R Pranav Sai, Ajay Singh Pawar, Satya Sai Mudigonda, Pallav Kumar Baruah, Application of High-Performance Computing for Calculating Reserves Using the Cape Cod Method, *International Journal of Engineering and Advanced Technology*, 9(1), 54-57, (2019).

Ankit Kumar, Ramesh K Vats, Avadhesh Kumar, Approximate Controllability of Second-order Non-autonomous System with Finite Delay, *Journal of Dynamical and Control Systems*, (2020).

S R Pranav Sai, Phani Krishna Kandala, Satya Sai Mudigonda, Pallav Kumar Baruah, Assessing Sustainability of General Insurance Business through Real Time KPI using GPUs and Neural Networks, *International Journal of Recent Technology and Engineering (IJRTE)*, 8(42), 620-628, (2019).

K S P Sowndarya, Y Lakshmi Naidu, Dominator and Total Dominator Coloring on Square Chessboard, *Global Journal of Pure and Applied Mathematics*, 15(4), 499-504, (2019).

Conference Presentations / Proceedings

Ananth V S, D K K Vamsi, Achieving Minimum Time Pest Eradication by Providing the Optimal Quality of Additional food to the Predator in a Predator-Prey system involving Type III Functional Response, *Mathematical Models in Ecology and Evolution* (16-19 Jul 2019) University of Lyon, Fran

Kesavan M, Sandeep Sahu, Ajith Padyana, Prediction of Cascading Popularity: A Feature Based Approach, **26**th **IEEE International Conference on High Performance Computing, Data and Analytics (HiPC-2019)** (17-20 Dec 2019) Hyderabad, India

G Sai Akhilesh, D Gautham Sreeram, B Sateesh, R Raghunatha Sarma, Chandra Sekhar Malladi and Pallav Kumar Baruah, A Novel Real-time Scalable Recommender System using Collaborative Filtering and NLP Techniques, **26**th **IEEE International Conference on High Performance Computing, Data and Analytics (HiPC-2019)** (17-20 Dec 2019) Hyderabad, India.

S R Pranav Sai, Ajay Singh Pawar, Satya Sai Mudigonda, Pallav Kumar Baruah, Application of High-Performance Computing for Calculating Reserves using the Cape Cod Method, **26**th **IEEE International Conference on High Performance Computing, Data and Analytics (HiPC-2019)** (17-20 Dec 2019) Hyderabad, India.

Goli Uma Sankar, Pallav Kumar Baruah, Sathya Sai Mudigonda, Fraud Detection on Automobile Insurance Industry using SPARK, **26**th **IEEE International Conference on High Performance Computing, Data and Analytics (HiPC-2019)** (17-20 Dec 2019) Hyderabad, India.

S R Pranav Sai, Phani Krishna Kandala, Satya Sai Mudigonda, Pallav Kumar Baruah, Assessing Sustainability of General Insurance Business through Real Time KPI using GPUs and Neural Networks, *Kalasalingam Global Conference (KGC-2019)* (18-20 Dec 2019) Krishnankoil, Tamil Nadu.

Rohan Yashraj Gupta, Satya Sai Mudigonda, Phani Krishna Kandala, Pallav Kumar Baruah, Implementation of a predictive model for fraud detection in motor insurance using gradient boosting method and validation with actuarial models, *Kalasalingam Global Conference (KGC-2019)* (18-20 Dec 2019) Krishnankoil, Tamil Nadu.

Akhilesh Pandey, S Balasubramanian and Darshan Gera, Emphasizing Similar Feature Representations to Defend against Adversarial Attacks, *National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG 2019)* (22-24 Dec 2020) KLE Technological University, Hubli, Karnataka.

Abhinay B, Basanta Sharma, S Balasubramanian, Darshan Gera, Srikanth Khanna, CaReNet: CapsNet based Regression Network, *National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG* **2019)** (22-24 Dec 2020) KLE Technological University, Hubli, Karnataka.

Kelam Goutam, S Balasubramanian, iSalGAN - An Improvised Saliency GAN, *National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG 2019)* (22-24 Dec 2020) KLE Technological University, Hubli, Karnataka.

Sai Raam Venkataraman, S Balasubramanian, R Raghunatha Sarma, Building Deep Equivariant Capsule Networks, *International Conference on Learning Representations (ICLR)* (26 Apr - 1 May 2020) Virtual Conference.

Physics

Publications in Peer Reviewed Journals

Abishek H, Chelli Sai Manohar, V Sai Muthukumar, B Siva Kumar, Maurizio Ferrari, K N Naresh, Krishna Chaitanya V, Paper-microfluidics based SERS substrate for PPB level detection of Catechol, *Optical Materials*, 94, 305-310, (2019).

Aditya Dileep Kurdekar, Chelli Sai Manohar, L A Avinash Chunduri, Mohan Kumar Haleyurgirisetty, Indira K Hewlett, Venkataramaniah Kamisetti, Computational design and clinical demonstration of a copper nanocluster based universal immunosensor for sensitive diagnostics, *Nanoscale Advances*, 2, 304-314, (2020).

S Tukaram, R Bhimireddi, K B R Varma, $Sr_{0.7}(Na_{0.5}Bi_{0.5})_{0.3}Bi_4Ti_5O_{18}$ ceramics in the system $Sr(_{2-x})$ ($Na_{0.5}Bi_{0.5})_xBi_4Ti_5O_{18}$ (where $0 \le x \le 0.5$), *J American Ceramic Society*, 102(7), 4082, (2019).

R Bhimireddi, S Tukaram, K B R Varma, Polymer composite of poly (vinylidene fluoride)—2-methyl-4-nitroaniline via hotpressing technique; structural, optical and electrical properties, *Materials Research Express*, 6(7), 076303, (2019).

Nandakumar H, Srivastava S, ABC-OCT - A Cross-Platform Implementation of Real-Time Fourier-Domain Optical Coherence Tomography, *Journal of Open Research Software*, 8(1), 7, (2020).

Sumukh Nandan R, R Gowrishankar, Shailesh Srivastava, Active loss compensation in the resonant optical gyroscope with a "reflector": towards a cost-effective alternative for the navigational grade, *Applied Optics*, 58(31), 8589-8597, (2019).

Murali Ravi, Angu Sewa, Shashidhar T G, Siva Sankara Sai Sanagapati, FPGA as a Hardware Accelerator for Computation Intensive Maximum Likelihood Expectation Maximization Medical Image Reconstruction Algorithm, *IEEE Access*, 7, 111727-111735, (2019).

Ranjan Rai, Muralikrishna Molli, Magnetic, optical and photocatalytic properties of yttrium doped KBiFe2O5, *Applied Physics A*, 125, 878, (2019).

Sumukh Nandan R, Shailesh Srivastava, R Gowrishankar, Non-reciprocal biasing for performance enhancement of the resonant fiber gyroscope with 'Reflector' using In-line Faraday rotators: Design, analysis and characterization, *Optical Fiber Technology*, 53, 102038, (2019).

Jayachandra Prasad T, Neelima G, Ravi N, Kiran N, Nanda Kumar Reddy Nallabala, Venkata Krishnaiah Kummara, Suresh K, Paramesh Gadige, Optical and spectroscopic properties of Ho³⁺-doped fluorophosphate glasses for visible lighting applications, *Materials Research Bulletin*, 124, 110753, (2020).

Hari Nandakumar, Satya Prasanna Mallick, Shailesh Srivastava, Sensing high frequency sub-nanometer vibrations using optical coherence tomography with real-time profilometry of multiple inner layers, *Optics and Lasers in Engineering*, 127, 105992, (2020).

Lavanya Rathi P, Deepa S, Structural, magnetic, thermal and optical properties of Sn²⁺ cation doped magnetite nanoparticles, *Ceramics International*, 46(3), 2969-2978, (2019).

P S J Bharadwaj, Swarup Kundu, Vijay Sai Kollipara, Kalidindi B R Varma, Structural, optical and magnetic properties of Sm3+ doped yttrium orthoferrite (YFeO₃) obtained by sol-gel synthesis route, *Journal of Physics: Condensed Matter*, 32(3), 035810, (2019).

P S J Bharadwaj, Swarup Kundu, Vijay Sai Kollipara, Kalidindi B R Varma, Synergistic effect of trivalent (Gd³⁺, Sm³⁺) and high-valent (Ti⁴⁺) co-doping on antiferromagnetic YFeO3, *RSC Advances*, 10(37), 22183-22195, (2020).

Conference Presentations / Proceedings

Hema Chander Ch, Paramesh Gadige, Study of coffee-ring patterns from drying drops of clay particle suspensions and effect of electric field, *CompFlu 2019* (5 Dec 2019) Indian Institute of Science Education and Research Bhopal (IISERB), Bhopal, Madhya Pradesh.

Padala Sairam Reddy, Sai Kiran Posam, Siva Sankara Sai S, Sai Kishore Bhyri, Novel RWSA algorithm for Flex-Grid Optical networks giving best Optical performance, Spectrally efficient and Cost optimized network design, *IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS 2019)* (16-19 Dec 2019) Goa, India.

Pranav Godway, Gowrishankar R, Vikram S, V S S Lakshmana Rao B, Sai Krian Kumar Reddy Y, Siva Sankara Sai Sanagapati, B V Avinash, Smart Traffic Management System Based on Software Defined Internet of Things Architecture, *IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE-ANTS 2019)* (16-19 Dec 2019) Goa, India.

Lavanya Rathi P, Gowrishankar R, Deepa S, Dielectric and

Magnetic properties of Oxides of Tin and Iron and their Composites - A Comparative Study, *64th DAE Solid State Physics Symposium (DAE-SSPS 2019)* (18-22 Dec 2019) Indian Institute of Technology, Jodhpur, Rajasthan.

Anjana Biswas and Prathibha C, Fabrication and Characterization of Low Cost 1-D TiO2 Nanotubes and their use in Defluoridation of Water, *64th DAE Solid State Physics Symposium (DAE-SSPS 2019)* (18-22 Dec 2019) Indian Institute of Technology, Jodhpur, Rajasthan.

R Sai Santosh, D Sai Shyam, Tomonori Fukuchi, Chary Rangacharyulu, K Venkataramaniah, K Vijay Sai, Design and optimization of a collimator for a New PET system using GATE simulation, *64th DAE-BRNS Symposium on Nuclear Physics* (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

C V Nithishkumar, M Venkatesh Prasad, K Vijay Sai, K Venkataramaniah, Arun K Jain, Non-existence of $^{12}C_{(g,s)}^{+12}C_{(g,s)}^{-12}$ configuration in $^{24}Mg_{(g,s)}^{-12}$ due to mismatch of $^{12}C(_{g,s}^{-12})$ deformed configurations at the surface, $\textbf{64}^{th}$ **DAE-BRNS Symposium on Nuclear Physics** (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

C Scheidenberger, D S Shreesha Rao, Sagar Venkatesh Prasad, C V Nithishkumar, K Venkataramaniah, K Vijay Sai, B Pfeiffer, A new weighted-slope method for extrapolation of Experimental Masses of Nuclei far from the valley of stability, *64th DAE-BRNS Symposium on Nuclear Physics* (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

B Pfeiffer, D S Shreesha Rao, K Vijay Sai, K Venkataramaniah, C Scheidenberger, Garvey-Kelson relations revisited for Masses of Nuclei far from the valley of stability, **64**th **DAE-BRNS Symposium on Nuclear Physics** (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

P C Sood, R Gowrishankar, Occurrence of low-lying K=8 2qp structures in actinides and beyond, *64th DAE-BRNS Symposium on Nuclear Physics* (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

R Gowrishankar, Venkatesh Prasad M, Nitishkumar C V, P C Sood, Low-lying structures in neutron rich ²⁵⁶₉₉Es₁₅₇ *64*th *DAE-BRNS Symposium on Nuclear Physics* (23-27 Dec 2019) Lucknow University, Uttar Pradesh.

D Sai Shyam, Tomonori Fukuchi, R Sai Santosh, K Vijay Sai, Chary Rangacharyulu, Cascade gamma correlations in beta minus decays for a novel modality of medical imaging - simulations, *10th International Conference on Isotopes (10ICI)* (3-7 Feb 2020) Kuala Lumpur, Malaysia.

Ranjan Rai, Muralikrishna Molli, Temperature dependent magnetic properties of KBiFe2O5, *International Conference On Advances In Basic Sciences (ICABS19)* (7-9 Feb 2019) Bahal, Haryana.

Chemistry

Publications in Peer Reviewed Journals

Seemesh Bhaskar, Pratyusha Das, Venkatesh Srinivasan, Shivakiran Bhaktha B N, Sai Sathish Ramamurthy, Bloch Surface Waves and Internal Optical Modes-Driven Photonic Crystal-Coupled Emission Platform for Femtomolar Detection of Aluminum Ions, *The Journal of Physical Chemistry C*, 124(13), 7341-7352, (2019).

Bhaskar Seemesh, Sai Sathish Ramamurthy, Mobile Phone-Based Picomolar Detection of Tannic Acid on Nd2O3 Nanorod-Metal Thin-Film Interfaces, *ACS Applied Nano Materials*, 2(7), 4613-4625, (2019).

Suvarcha Chauhan, Anand Kumar Manglam, Santosh Kumari, Pooja Kaundal, Chittor N Sundaresan, Effect of Benzheterazoles on the Micellar Behaviour of Sodium Dodecylsulfate in Dimethylsulfoxide: A Conductometric and Spectroscopic Approach, *Journal of Surfactant Detergents*, 23, 195-206, (2020).

Seemesh Bhaskar, N Charan S S Kowshik, S Prathap Chandran, Sai Sathish Ramamurthy, Femtomolar Detection of Spermidine Using Au Decorated ${\rm SiO_2}$ Nanohybrid on Plasmon-Coupled Extended Cavity Nanointerface: A Smartphone-Based Fluorescence Dequenching Approach, *ACS Langmuir*, 36(11), 2865-2876, (2020).

Seemesh Bhaskar, Ramay Patra, N Charan, S S Kowshik, K M Ganesh, Venkatesh Srinivasan, Prathap Chandran S, Sai Sathish Ramamurthy, Nanostructure effect on quenching and dequenching of quantum emitters on surface plasmon-coupled interface: A comparative analysis using gold nanospheres and nanostars, *Physica E: Low-dimensional Systems and Nanostructures*, 124, 114276, (2020).

K V S Manichandrika, Sahida Sharma, Promising antifungal agents: a minireview, *Journal of Bioorganic and Medicinal Chemistry*, 28(7), 115398, (2020).

Seemesh Bhaskar, Maku Moronshing, Venkatesh Srinivasan, Pradeep Kumar Badiya, Chandramouli Subramaniam, Sai Sathish Ramamurthy, Silver Soret Nanoparticles for Femtomolar Sensing of Glutathione in a Surface Plasmon-Coupled Emission Platform, *ACS Applied Nano Materials*, 3(5), 4329-4341, (2020).

Kar S, Ramamoorthy G, Mitra K, Shivalingegowda N, Mahesha, Mavileti S K, Krishnappagowda L N, Doble M, Golakoti Nageswara Rao, Synthesis of novel spirobibenzopyrans as potent anticancer leads inducing apoptosis in HeLa cells, *Bioorganic & Medicinal Chemistry Letters*, 30(12), 127199-127205, (2020).

Andar A, Hasan M S, Srinivasan V, Al-Adhami M, Gutierrez E, Burgenson D, Ge X, Tolosa L, Kostov Y, Rao G, Wood Microfluidics, *Analytical Chemistry*, 91(17), 11004-11012, (2019).

Krishna Prasad Gannavarapu, V Ganesh, Rajesh Babu Dandamudi, Zirconia nanocomposites with carbon and iron(III) oxide for voltammetric detection of subnanomolar levels of methyl parathion, *Nanoscale Advances*, 1, 4947-4954, (2019).

Conference Presentations / Proceedings

Badiya P K, Bebeto R, Ramamurthy S S, Gold nanoparticles from floral extracts of Tagetus erecta as novel spacer for enhancements in plasmon-coupled fluorescence emission enhancements, *National Conference on Current Trends and Advances in Chemical Science (CTACS-19)* (19 Sep 2019), Salem, Tamil Nadu.

U Venkata Gopi, Rajesh Babu Dandamudi, S Chandra, Bio diversity of fresh water algae of some ponds of Anantapur District, *International Conference on Environmental, Agricultural, Chemical and Biological Sciences-2020* (24-25 Jan 2020) Puducherry, India.

Biosciences

Publications in Peer Reviewed Journals

Abdulrahman I Almansour, Natarajan Arumugam, Raju Suresh Kumar, D Kotresha, Thota Sai Manohar, S Venketesh, Design, synthesis and cholinesterase inhibitory activity of novel spiropyrrolidine tethered imidazole heterocyclic hybrids, *Bioorganic & Medicinal Chemistry Letters*, 30(2), 126789, (2020).

Natarajan Arumugam, Abdulrahman I Almansour, Raju Suresh Kumar, D Kotresha, R Saiswaroop, S Venketesh, Dispiropyrrolidinyl-piperidone embedded indeno[1,2-b] quinoxaline heterocyclic hybrids: Synthesis, cholinesterase inhibitory activity and their molecular docking simulation, *Bioorganic & Medicinal Chemistry*, 27(12), 2621-2628, (2019).

Kartik S Aiyer, Roshan Rai, B S Vijayakumar, Dye reduction-based electron-transfer activity monitoring assay for assessing microbial electron transfer activity of microbial fuel cell inocula, *Journal of Environmental Sciences*, 96, 171-177, (2020).

Kartik S Aiyer, How does electron transfer occur in microbial fuel cells?, *World Journal of Microbiology and Biotechnology*, 36(2), 1-19, (2020).

Khamari B, Lama M, Pachi Pulusu C, Biswal A P, Lingamallu S M, Mukkirla B S, Sahoo A K, Dash H S N, Sharda R, Kumar P, Bulagonda E P, Molecular analyses of biofilm-producing clinical Acinetobacter baumannii isolates from a South Indian tertiary care hospital, *Medical Principles and Practice*, 1011-7571, (2020).

Conference Presentations / Proceedings

Khamari B, Adak S, Mangale V, Moradiya N K, Paci Pulusu C, Lama M, Bulagonda E P, Sequential progressive mutations associated with acquisition of Nitrofurantoin resistance: A study in clinically isolated Gram-negative bacteria, *South Zone Conference on Critical Care (SZCC 2019)* (15-18 Aug 2019) Vishakhapatnam, Andhra Pradesh.

Balaram Khamari, Sudeshna Adak, Vishakha Mangale, Neha Karshan Moradiya, Pachi Pulusu Chanakya, Manmath Lama and Bulagonda Eswarappa Pradeep, Sequential progressive mutations associated with acquisition of Nitrofurantoin resistance: A study in clinically isolated ram-negative bacteria, *South Zone Conference on Critical Care (SZCC 2019)* (15-18 Aug 2019) Vishakhapatnam, Andhra Pradesh.

Sahashransu S Mahapatra, A S Vishwanathan, Characterizing performance of an earthen separator in two-chambered microbial fuel cell, *Advances in Chemical Sciences and Technologies (ACST - 2019)* (23 Sep 2019), National Institute of Technology, Warangal, Telangana.

Mukul Anand, Basavaraju R, Tecoma stans: a novel source of bioactive compounds with potential therapeutic benefits, *National Conference on Functional Foods - Research, Innovations and Challenges (AIMIFOST 2019)* (18 Dec 2019) Amity Institute of Food Technology, Amity University, Noida, Uttar Pradesh.

Prasanth Ghanta, Basavaraju R, Anti-inflammatory potential of Deoxyvasicine - An in-silico approach, *International Conference on Advances in Pharmaceutical and Health Sciences* (20 Feb 2020) NITTE (Deemed to be University), Mangalore, Karnataka.

Balaram Khamari, Pachi Pulusu Chanakya, Manmath Lama and Bulagonda Eswarappa Pradeep, Characterization of clinically isolated carbapenem resistant Escherichia coli, *Criticare 2020* (28 Feb - 1 Mar 2020) Hyderabad.

Balaram Khamari, Dash H S N, Bulagonda E P, Characterization of clinically isolated carbapenem-resistant Escherichia coli, *Criticare 2020* (28 Feb - 1 Mar 2020) Hyderabad.

Saikrishna Srimadh Bhagavatham, Narsimulu Gumdal, Narasimhan K, Damodaram Potikuri, Rajesh Babu Dandamudi, Sai Mangala Divi, Ashish Pargaonkar, Rahul Ray, Sujith Kumar Pulukool, Vishnu Kannan, Ashwin Ashok Naik, Saibharath Simha Reddy Santha, Prakash Khanchandani, Venketesh Sivaramakrishnan, Adenosine Deaminase (ADA) reprograms metabolism and promotes onset and progression of Rheumatoid Arthritis (RA), *American Society for Mass Spectrometry (ASMS) 2020 Reboot* (1 Jun 2020) Virtual Conference.

Sai Manohar Thota, Sai Sanwid Pradhan, Bhavana N Reddy, Isha Verma, Rajesh Babu D, Vidyasagar K, Pavan Vasoya, Ashish Pargaonkar, Deepak Saligrama, Sunil H V, Krishna Murty V, Seshagiri Polani, Sanjaya Viswamitra, Dileep Kumar, Joshy E V, Venketesh Sivaramakrishnan, Metabolic rewiring Modulates amyloid-like aggregate formation in Huntington's disease, *American Society for Mass Spectrometry (ASMS)* **2020 Reboot** (1 Jun 2020) Virtual Conference.

Food & Nutritional Sciences

Publications in Peer Reviewed Journals

Manjula D Ghoora, Ashrita C Haldipur, N Srividya, Comparative evaluation of phytochemical content, antioxidant capacities and overall antioxidant potential of select culinary microgreens, *Journal of Agriculture and Food Research*, 2, 1-7, 100046, (2020).

Manjula D Ghoora, N Srividya, Effect of Packaging and Coating Technique on Postharvest Quality and Shelf Life of Raphanus sativusL. and Hibiscus sabdariffa L. Microgreens, *Foods*, 9(5), 653, (2020).

Manjula D Ghoora, Dandamudi Rajesh Babu, N Srividya, Nutrient composition, oxalate content and nutritional ranking of ten culinary microgreens, *Journal of Food Composition and Analysis*, 91, 1-10, 103495, (2020).

Conference Presentations / Proceedings

N Saiharini, A Padmaja, Assessment of nutritional and functional properties of passion fruit by-products, *FOODS 2019 - ITAF: International Conference on Innovations and Technological Advances in Food* (5-6 Aug 2019), M O P Vaishnav College for Women Chennai.

Harshini V, Sai Gayathri, A Padmaja, Development of instant soup mix from Muntingia calabura fruit, *FOODS 2019 - ITAF: International Conference on Innovations and Technological Advances in Food* (5-6 Aug 2019), M O P Vaishnav College for Women Chennai.

Sai Dharshini S, Meera M, Healthier ready to eat snack foods: Snack Bars, *International Conference on Whole Grain Technology* (21-22 Aug 2019) Academy of Maritime Education and Training (AMET), Chennai.

K Shraddha Mohan, Sai Dharshini S, Sharanya Menon, Srividya N, Nutritional evaluation and functional properties of multigrain based supplementary protein mix, *International Conference on Whole Grain Technology* (21-22 Aug 2019) Academy of Maritime Education and Training (AMET), Chennai

Alisha Pradhan, Lakshmi Priya, Meera M, Development, nutrient analysis and shelf-life study of the multigrain composite flour khakhras enriched with papaya flour, *International Conference on Whole Grain Technology* (21-22 Aug 2019) Academy of Maritime Education and Training (AMET), Chennai.

Himaja K, Jyothi N S, Sai Dharshini S, Meera M, Formulation, development and sensory acceptability of snack bars -Oral presentation, *International Conference on Whole Grain Technology* (21-22 Aug 2019) Academy of Maritime Education and Training (AMET), Chennai.

Harshini Sunku, Kondammagari Hemakumari, Sparsh Sumnirom Subba, Tapasya Anand, Role of Plant-Based Proteins In Athletic Performance, *National Conference on Functional Foods - Research, Innovations and Challenges (AIMIFOST 2019)* (18 Dec 2019) Amity Institute of Food Technology, Amity University, Noida, Uttar Pradesh.

B Andallu, Role of phytochemicals in spices in Healthcare, *107th Indian Science Congress* (3-7 Jan 2020) University of Agricultural Sciences, Bangalore.

B Andallu, Shobha I R, Bioactivity (in vitro) of luteolin-6c-glucoside isolated from aniseeds (Pimpinella anisum L.) **107**th **Indian Science Congress** (3-7 Jan 2020) University of Agricultural Sciences, Bangalore.

Management & Commerce Publications in Peer Reviewed Journals

Vijaya Sunder M, Sanjay Mahalingam, Sai Nikhil Krishna M, Improving patients' satisfaction in a mobile hospital using Lean Six Sigma - a design-thinking intervention, *Production Planning and Control*, 31(6), 512-526, (2020).

G V Muralidhara, Sayee Manohar Krishnamurthy, Zomato: Can It Win the Battle for Leadership in India's Food Tech Market?, *IBS Case Development Center (2019)*.

Articles

N Sivakumar, The Power of Spirituality in Business, *Business India*, pp193-194, August, (2019).

Economics

Publications in Peer Reviewed Journals

Sparsh Thakur, Raghavender Raju G, Accumulation, Adequacy and Utilisation of India's Foreign Exchange Reserves, *Journal of Economic Policy and Research*, 14(1), 2-17, (2019).

Sivakiran Guptha, R Prabhakar Rao, Analysis of Stock Market Efficiency in Emerging Markets: Evidence from BRICS, *The Romanian Economic Journal*, 22(72), 60-77, (2019).

M Mallikarjuna, R Prabhakara Rao, Application of Data Mining Techniques to Classify World Stock Markets, *International Journal of Emerging Trends in Engineering Research*, 8(1), 46-53, (2020).

Sayel Basel, K U Gopakumar, R Prabhakara Rao, Broad-based

index for measurement of development, *Journal of Social and Economic Development*, 22, 182-206, (2020).

M Mallikarjuna, R Prabhakara Rao, Evaluation of forecasting methods from selected stock market returns, *Financial Innovation*, 5(40), 1-16, (2019).

Sivakiran Guptha K, Prabhakar Rao R, GARCH based VaR estimation: An empirical evidence from BRICS stock markets, *Theoretical and Applied Economics*, 26(4), 201-218, (2019).

R Prabhakar Rao, Brajendra C Sutradhar, Multiple Categorical Covariates-Based Multinomial Dynamic Response Model, *Sankhya A: The Indian Journal of Statistics*, 82(1), 186-219, (2020).

Arunsai Rankireddy, M Mallikarjuna, R Prabhakara Rao, Sectoral Analysis of the Indian Stock Market: A Network Algorithm Perspective, *International Journal of Business Insights and Transformation*, 13(1), 20-32, (2020).

Sivakiran Guptha K, Prabhakar Rao R, Stock Market Volatility and Mean Reversion of BRICS Before and After Global Financial Crisis, *Journal of Academic Research In Economics*, 11(2), 330-354, (2019).

Rajbhushan J Nayak, V Pandit, Rajendra N Parmanik, Sustainability of Public Debt: An Analytical Framework, *Arthavijnana*, 61(3), 239-260, (2019).

Sayel Basel, Gopakumar K U, R Prabhakara Rao, Testing club convergence of economies by using a Broad-Based Development Index, *GeoJournal*, (2020).

M Sri Saikiran, M Mallikarjuna, R Prabhakara Rao, Testing the Weak-form Efficiency of BRICS Stock Markets, *Asian Journal of Economics, Finance And Management*, 1(3), 115-223, (2019).

M Mallikarjuna, R Prabhakara Rao, Volatility experience of major world stock markets, *Theoretical and Applied Economics*, 26(4), 35-52, (2019).

Education

Publications in Peer Reviewed Journals

Miss Supriya C P, Prof. Madhu Kapani, An exploration on the various strategies for implementing Peace Education among Adolescents, *Scholarly Research Journal for Interdisciplinary Studies*, 7(57), 13431-13444, (2020).

Conference Presentations / Proceedings

Madhu Kapani, Sri Sathya Sai system of Integral Education: The path to Transformation and Sustainability, *IATE National seminar 2020 on Education for Social Inclusion, Sustainable Development and Empowerment* (27-28 Jan 2020) Ravenshaw University, Cuttack, Odisha.

English Language & Literature Publications in Peer Reviewed Journals

Dhantal Smita, Rani P L, Black Beauty Through the Anthropomorphic Lens, *Asian Quarterly: An International Journal of Contemporary Issues*, 17(2), 193-202, (2019).

Siddhartha R, Rani P L, Cricket as a Cultural Phenomenon in British India, *Journal of Literary and Cultural Studies*, 1(1), 119-128, (2020).

B Venkataramana, Death as a major preoccupation: Art and themes in Keats poetry, *International Journal of Research and Analytical Reviews*, 6(2), 800-805, (2019).

B Venkataramana, The Byronic Temper and Byronism, *The Indian Review of World Literature in English*, 16(1), 1-5, (2020).

Shivam Tamang, Arun Behera, Dramatic Devices in Arms and the Man, *International Journal of English Literature & Culture*, 8(2), 35-37, (2020).

Rath Tapan, Arun Behera, Manoeuvring Indigenous Literature in English Language Teaching Classes, *The Dawn Journal*, 9(2), 1442-1447, (2020).

Arun Behera, Anomalies between Orthography and Pronunciation in English and Suggestions to Mitigate the Problems, *International Journal of Linguistics & Computational Applications*, 7(1), 1-4, (2020).

Prashant Luthra, Rajeshwari C Patel, Revisiting the moral approach to the study of fiction, *Research Journal of English Language and Literature (RJELAL)*, 8(2), 123-131, (2020).

Swathi Metla, Rajeshwari C Patel, Prejudice and Violence in the Potterverse, *International Research Journal of Management, Sociology and Humanities*, 10(11), 233-245, (2019).

Swathi Metla, Social Markers and Gender in the Harry Potter Series, *International Journal of Creative Research Thoughts (IJCRT)*, 8(4), 3404-3413, (2020).

Swathi Metla, The Conflicting Contradictions and Philosophical Musings in Keshava Reddy's He Conquered the Jungle, *Purakala (UGC Care Journal)*, 31(18), 560-573, (2020).

Swathi Metla, The study of April Raintree as a Struggle for Positive Self-image and Realisation, *Studies in Indian Place Names (UGC Care journal)*, 40(71), 1754-66, (2020).

Swathi Metla, The Heroism in Tolkien's The Hobbit, *Studies in Indian Place Names (UGC Care journal)*, 40(76), 773-782, (2020).

Conference Presentations / Proceedings

Dibba Bhargavi, Who is the Master?: An Understanding of The Message to the Planet in the Indian Context, *Iris Murdoch Centenary Conference* (13-15 Jul 2019), St Anne's College, University of Oxford, U.K.

Ponapalli Prasanti Prabha, Meandering through the Web of Illusion: Bruno's Dream from an Indian Perspective, *Iris Murdoch Centenary Conference* (13-15 Jul 2019), St Anne's College, University of Oxford, U.K.

Swathi Metla, Study of April Raintree as a Quest for Identity and Freedom, *International Conference on Building Bridges of Friendship: Canada and India* (7-9 Jan 2020) Acharya Nagarjuna University, Guntur, Andhra Pradesh.

Swathi Metla, Rajeshwari C Patel, Politics of Image in Contemporary Culture, *International Seminar on Media Technologies and Accessibility: Politics, Representations and Paradigms* (21-22 Jan 2020), Pondicherry University, Puducherry.

Swathi Metla, Media as a Tool for Opinion-building in Popular Culture, *International Seminar on Media Technologies and Accessibility: Politics, Representations and Paradigms* (21-22 Jan 2020), Pondicherry University, Puducherry.

Swathi Metla, Heroism in Tolkien's The Hobbit, *International Conference on Enlightenment through English Language and Literature* (31 Jan 2020) Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, Tamil Nadu.

Swathi Metla, Smita Dhantal, Sociolinguistic Discourse Analysis of the Harry Potter Series and A Song of Ice and Fire, *International Seminar on Linguistics, Theories, Law, Life and Language* (11-13 Feb 2020) Osmania University, Hyderabad.

Arun Behera, Why do we pronounce certain sounds in a particular way and how can we fix it?, *IRDP Journals' Annual Conference 2019* (23 Feb 2020) Chennai.

Sub-Departments & Languages

Publications in Peer Reviewed Journals

Piyush Kumar Shrivastava, Bharat, *Sankalya*, 2(1), 22, (2019).

Piyush Kumar Shrivastava, Chunav, *Sankalya*, 1(31), 1, (2019).

Piyush Kumar Shrivastava, Hindustani Sainik Ke Paigam, Alagavvadion-Pakistan Ke Naam, *Sankalya*, 2(1), 23-24, (2019).

Kiron Bala Arora, Ekta Hai Prana Shakti, *Sankalya*, 10, 17-18, (2019).

R Visveswar, Huguenots and the conquest of Pondicherry by the Dutch, *Research Journey*, 162, 2, (2019).

R Visveswar, Nadars: A Journey from an Oppressed to an Advanced Caste, *Ajanta*, 8(2), 4, (2019).

Mahabala Rao M G, Veda Smrutishu Bhoo - Jalanirvahana Vichaaraaha Tasya Prastutopayogancha, *International Journal of Sanskrit Research*, 6(2), 165-169, (2020).

M B S S Narayana, Maaya Shakti niroopakam saakteya Saiva nirnaayakam brahmarshi Tadepalli Raghava Narayana Sastribhihi krutam - Matswapnaha, grandha sameeskhanam, *International Journal of Sanskrit Research*, 6(1), 133-136, (2019).

N Venkatesha Rao, Charming description of rivers in Vadiraja's works, *International Journal of Sanskrit Research*, 6(2), 157-159, (2020).

N Venkatesha Rao, Koruk, *International Journal of Sanskrit Research*, 6(2), 287-292, (2020).

N Venkatesha Rao, Vidya vinaya samarasyam, *International Journal of Sanskrit Research*, 6(2), 93-97, (2020).

N Venkatesha Rao, Brahma sutre Janmadhkarane adi padarthah, *Hitaya*, 2(2), (2020).

Articles / Translations

M Praphulla, Tirumala Daivam Paradaivatham Naha (Translation from Telugu to Sanskrit), *Sapthagiri*, 6(6), 15-18, (2019).

M Praphulla, Bhagavadgeetha Yuvatha: Manonigrahasya Maargah (Translation from Telugu to Sanskrit), *Sapthagiri*, 6(7), 10, (2019).

M Praphulla, Bhagavadgeetha Yuvatha: Eshah Karmabhoomihi (Translation from Telugu to Sanskrit), *Sapthagiri*, 7(1), 10, (2020).

M Praphulla, Bhagavadgeetha Yuvatha: Thava Sukhaduhkhayoh thvameva karanam (Translation from Telugu to Sanskrit), *Sapthagiri*, 6(12), (2020).